GELIMAN. N.L., inzh.; BELOBEZHESSKIY, N.A., inzh.; MUSATOV, T.i., inzh.; SOROKA, I.F., inzh.

Time intervals between repairs. Elek. sta. 36 no.9:74-76 S '65. (MIFA 18:9)

1. Rostovskoye rayonnoye upravleniye energeticheskogo khozyaystva (for Gel'man, Belobrzhesskiy). 2. Glavnoye upravleniye energeticheskogo khozyaystva Donetskogo basseyna (for Musatov, Soroka).

MUSIYKO, D.K. (Donetskaya oblast*); KHAMZIN, Kh.Kh. (Sterlitamak);
PRIVEN, R.A.; GEL*MAN, N.L. (Zhmerinka); PRESMAN, A.A. (Sverdlovsk)

Editor*s mail. Mat. v shkols no.3:81-86 My-Je *162. (MIRA 15:7)

(Mathematics—Problems, exercises, etc.)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000514710006-7

22(1)17

SOV/177-58-1-16/25

AUTHOR:

Gel'man, N.M., Lieutenant Colonel of the Medical Corps

TITLE:

The Role of the Garrison Hospital in Raising the Level of the Military Physician's Clinical Training (Rol' garnizonnogo gospitalya v povyshenii urovnya

klinicheskoy podgotovki voyskovykh vrachey)

PERIODICAL:

Voyenno-meditsinskiy zhurnal, 1958, Nr 1, pp 68-70

(USSR)

ABSTRACT:

The author criticizes the fact that military physicians under training, sent to military hospitals, are being used as additional working units instead of being trained for higher qualifications. He stresses the need to replenish hospital libraries with modern medical literature and considers ward duty, twice a month, good practical training for future mili-

tary physicians.

Card 1/1

OSTROVSKIY, D.N.; GEL'MAN, N.S.

Oxidative phosphorylation on bacterial membranes of Microsoccus lysodeikticus. Biokhimila 30 no.4:772-777 J1-Ag '65. (MIPA 18:8)

1. Institut biokhimii imeni A.N. Bakha AN SSSR, Moskva.

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000514710006-7

GEL'MAN, N. S. and A. OPARIN

"Formation of Purin Bases in Germinating Wheat Seeds," Dokl. Ak. Nauk SSSR, vol 64, No. 1, 1946.

B-2077, 9 Mar 48

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710006-7"

"Dehydrates of the Ripening and Cerminating Grain of Wheat." Thesis for degree of Candi. Biological Sci. Sub 13 May 49, Inst of Biochemistry ineni A. N. Bakh, Acad Sci USSR

Summary 82, 16 Dec 52, <u>Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949</u>. From <u>Vechernyaya Poskya</u>, Jan-Dec 1949.

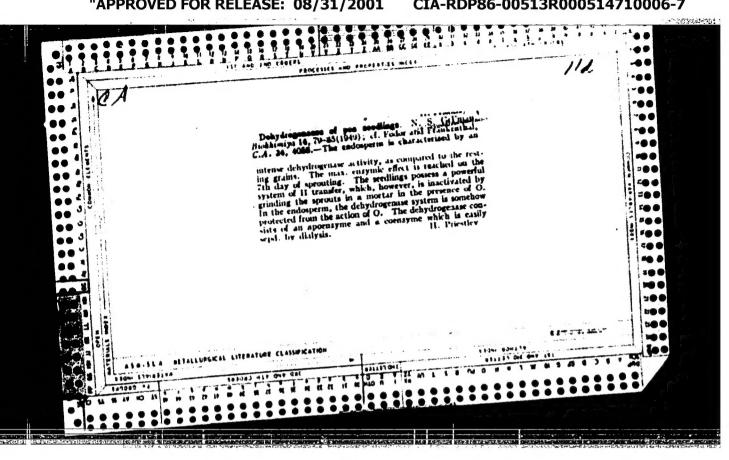
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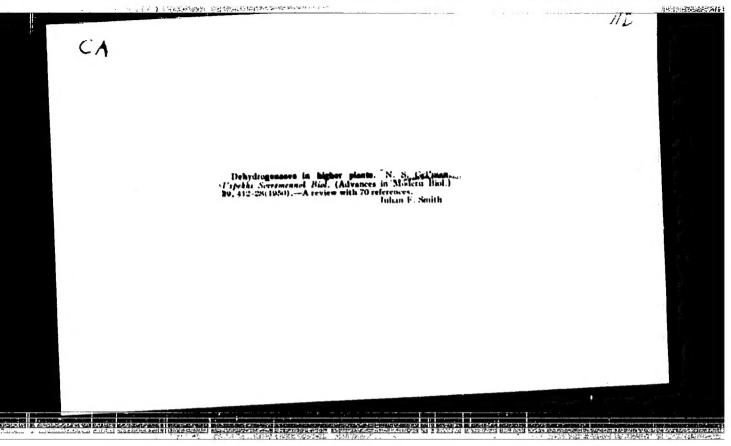
事物的"自動性質"的主

GEL'MAN, N. S.

"Dehydration of Wheat Shoots," Biokhimiya, vol. 14, No. 1, 1949.

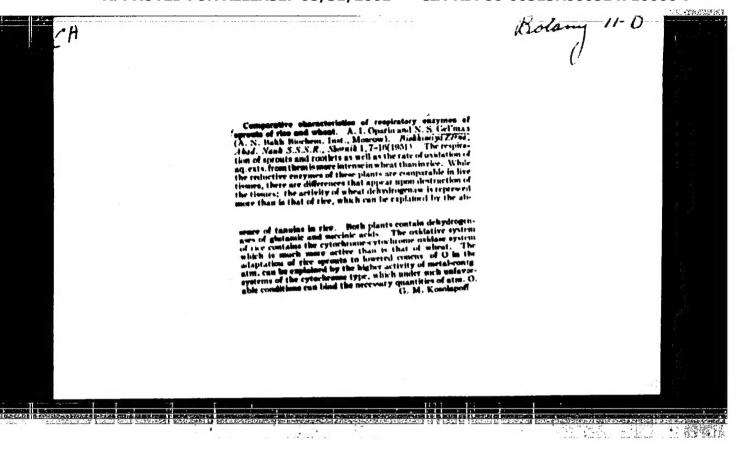
Inst. Biochem. im A. N. Bakh, Acad. Sci. USSR

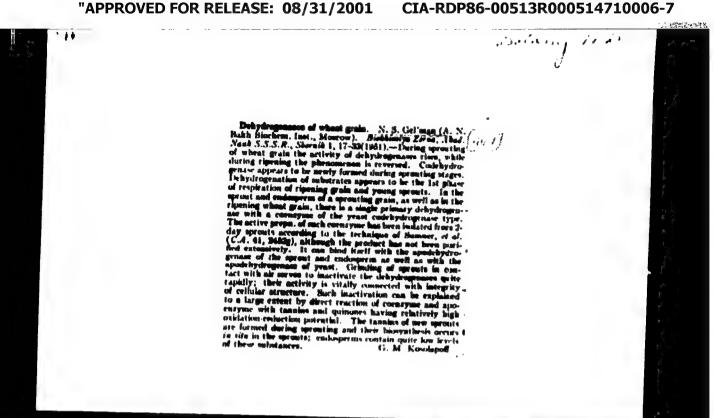




"APPROVED FOR RELEASE: 08/31/2001 (

CIA-RDP86-00513R000514710006-7





OPARIF, A.I.; SISAKYAN, M.M.; GHL'MAN, M.S.

Centribution to the history of plant bischemistry in the U.S.S.R. Trudy (MLRA 6:7)
Inst.ist.est. 4:236-266 '52. (Betanical chemistry)

KRETOVICH, V. L., GEL!MAN, N. S.

Palladin, Vladimir Ivanovich, 1859-1922

Vladimir Ivanovich Palladin; 30th anniversary of his death. Vest. AN SSSP 21, No. 2, 1952.

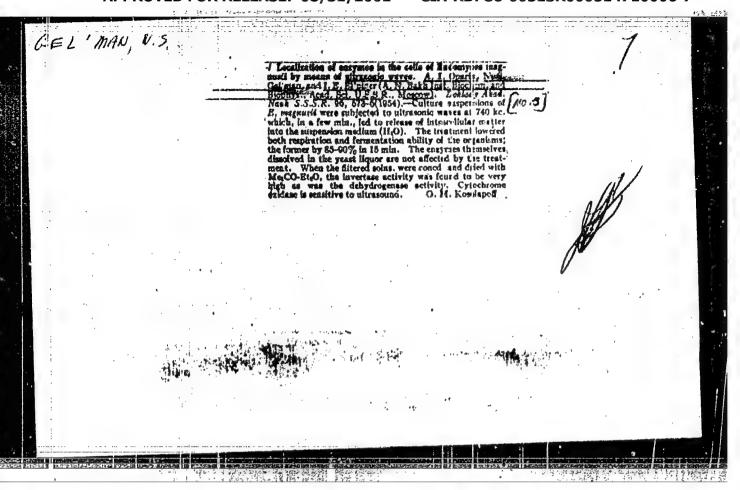
9. Monthly List of Russian Accessions, Library of Congress, July 1952 x1953, Uncl.

CPARIN, A. I.; GILLAN, M. S.

Botany - Physiclogy

Problem of the relation between respiration and processes of synthesis in plants. Dokl. AN SSUR 85, No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1957, Uncl.



GEL MAN, N. S.

USSR/Biology - Biochemistry

Card

: 1/1

Authors

Oparin, A. I. Academician; Gel'man, N. S. and El'piner, I. E.

Title

Discovery of invertin in Saccharomyces Globosus 349 with the aid of ultrasonic waves

Periodical

* Dokl. AN SSSR, 97, Ed. 2, 293 - 295, July 1954

Abstract:

Experimental data are presented on the discovery of invertin (yeast enzyme) in Saccharomyces Globosus 349, the activity of which becomes evident after the effect of the ultrasonic waves resulting in partial escape of the cellular content into the surrounding solution. Five references.

Drawing.

Institution : Acad. of Sc. USSR, Institute of Biophysics and the A. N. Bakh Institute

of Biochemistry

Submitted

: Hay 15, 1954

GEL MAIL, N.S.

USER/Biology - Biochemistry

Card 1/1

Pub. 22 - 28/45

Authors

: Oparin, A. I., Academician; Geliman, N. S.; and Zhukova, I. G.

Title

: Effect of nutritious medium on the carbohydrate composition of yeast and its fermentation activity

Pariodical : Dok. AN SSSR 99/4, 593-596, Dec 1, 1954

h was bring a san

Abstract

The effect of the nutritious medium on the carbohydrate composition of Saccharomyces globosus 349 and Saccharomyces paradoxus 37 yeasts and the fermentation activity of the latter, was investigated. The results obtained are tabulated. Five references: 4-USSR and 1-USA (1949-1954). Table; drawing.

Institution:

Submitted

: - September 24, 1954

EEL'MAN. N.S.

USSR/ Biology

Pub. 124 - 16/25 (lard 1/1

t Deborin, G. A., Cand. of Chem. Sc., and Gel man, N. S., Cand. of Biol. Sc. Authors

t At the Biological Sciences Department of the Acad. of Sc., USSR Title

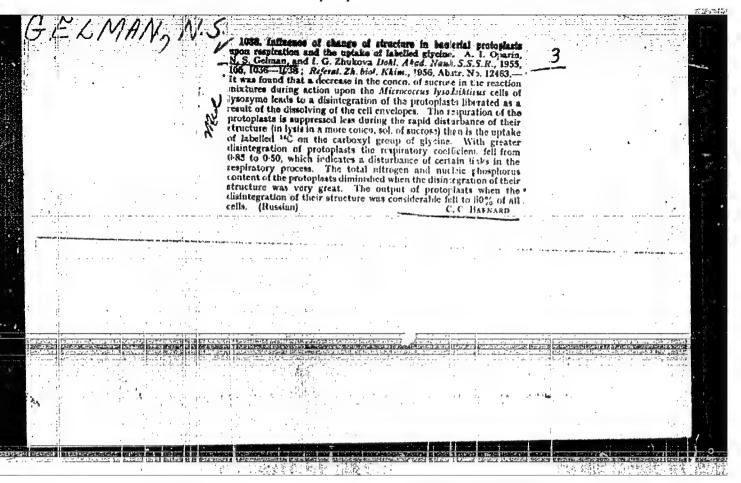
Periodical : Vest. AN SSSR 25/12, 78-79, Dec 1955

Briefs are presented from the lecture by the renown Danish Biologist, Prof. H. Holter, on the subject of, "Absorption of Liquids by Amebia," Detract

held in Moscow on Oct. 12, 1955.

Institution :

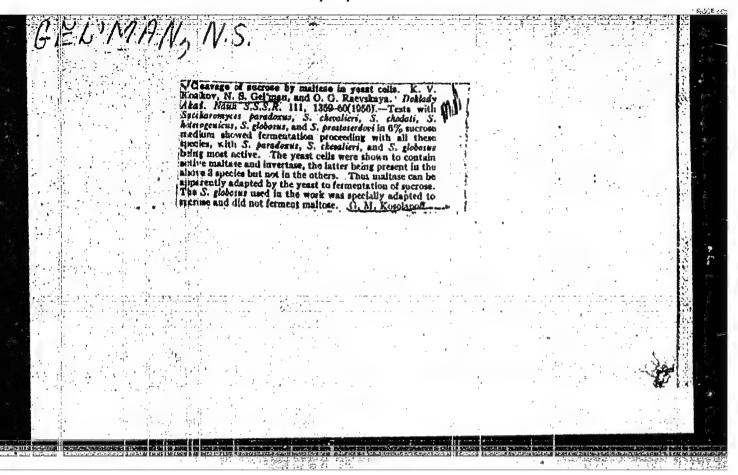
Submitted



GEL! MAN; N.S.; ZEMKEVICH, G.D.; SISAKYAN, N.M., otvetstvennyy redaktor; OFARTH, A.I., akademik, redaktor; KHRUSHCHOV, G.K., redaktor; CENEEL!, P.A., professor, redaktor; GAYSINOVICH, A.Ye., kandidat biologicheskikh nauk, redaktor; SICKINA, Ye.M., tekhnicheskiy redaktor

[Biochemistry of plants; a bibliography of Russian literature, 1738-1952] Biokhimiia rastenii; bibliograficheskii ukasatel otechestvennoi literatury, 1738-1952. Sost. N.S.Gel'man i O.D.Zenkevich. Otv. red. N.N.Sisakian. Noskva, 1956. 394 p. (MLRA 9:7)

1. Akademiya nauk SSER. Otdeleniyebiologicheskikh nauk. 2. Chlenkorrespondent AH SSER (for Sisakyan, Ehrushchov) (Bibliography-Botanical chemistry)



Paris, A.I.; GEL'MAN, M.S.; ZHEKOVA, I.G.

Relation of the incorporation of labeled glycine and the increase in protein nitrogen contant to the structural conditions of bacterial protein nitrogen contant to the structural conditions of bacterial protein nitrogen on English]. Biokhimia 22 no.1/2:399-403 [MIRA 10:7]

Ja-F'57.

1. Institut biokhimii im. A.E.Bekha Akademii nauk SSSR, Moskva.

(MIGROGOCGUS, metabolism.

lyacdaikticus, eff. of labeled glycine incorporation & protein nitrogen on structure of protoplasta (Rus))

(MIRCOUSM, metabolism,

Micrococcus lyacdaikticus, eff. of labeled glycine incorporation & protein nitrogen on structure of protoplasts (Rus))

(GLYCINE, metabolism,

same)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000514710006-7

GEL MAN N. S. (Moscow, USSR)

"Some Enzymatic Activities in Protoplasts and Ghosts of M. lysodeikticus," Paper submitted at IV International Congress of Biochemistry, 1 - 6 Sep 1958, Vienna, Austrial

LAST BIDGARD . IN A. N. BARK Me CON.

OPARIN, A.I., GEL'MAN, N.S., ZHUKOVA, I.G., LUK'YANOVA, M.A.

Interrelation of the enzyme activity of the di- and tricarboxylic acid cycle and the proteplast structure of Micrococcuslysodeikticus [with summary in English]. Biokhimiia 23 no.6:909-916 N-D 158 (MIRA 11:12)

1. Institut biokhimii imeni A.N. Bakha AN SSSR, Moskva. (OXIDATION, PHYSIOLOGICAL)

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GEL'HAM, N.S.; ZHUKOVA, I.G.; LUKOYANOVA, M.A.; OPARIN, A.I.

Succinic oxidase and malic oxidases in structural elements of Micrococcus lysodeikticus. Biokhimiia 24 no.3:481-488 Hy-Je '59. (MIRA 12:9)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow.

(MICROCOCCUS, metab.

· March Hamil Hard

lysodeikticus, succinic & malic oxidases (Rus))

(SUCCINIC OXIDASE,

in Micrococcus lysodeikticus (Rus))

(OXIDASES,

succinic oxidase in Micrococcus lysodeikticus $(\mathbf{H}_{\mathbf{U}\mathbf{B}})$

GML'MAN, N.S.; ZHUKOVA, I.G.; OPARIN, A.I.

Effect of a surface active substance on the enzymatic system oxidising malic acid in cytoplasmic membranes of Micrococcus lysodeikticus. Biokhimia 24 no.6:1074-1078 N-D 159.

(MIRA 13:5)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow.

(MICROCOCCUS metab.)
(MALATES metab.) ·
(SURFACE ACTIVE AGENTS pharmacol.)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710006-7"

对外的基础是一个分式

GEL! MAN, N.S. (Moskva)

Relationship of biochemical processes and structural elements of bacterial cells. Usp. sovr. biol. 47 no.2:152-167 Mr-Ap *59. (MIRA 12:7) (BACTERIA, metab. biochem., relation to cell structure, review (Rus))

一年。1988年1848年191日

17(2,3) AUTHORS:

Gel'man, N. S., Zhukova, I. G., Oparin, A. I., Academician

TITLE:

The Effect of Desoxyribonuclease on the Oxidation of Malonic Acid by the Lysates of Micrococcus Lyodeikticus (Vliyaniye dezoksiribonukleazy na okisleniyo vablochnoy kisloty lizatami bakteriy Micrococcus Lyodeikticus)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 1, pp 198-199 (USSR)

ABSTRACT:

Malic oxidase - a fermentative system which oxidizes malonic acid, is of considerable resistance as far as the disturbance of the protoplasmic structure is concerned. This system is localized in the oytoplasmic membranes - the "shadows". Such shadows can be obtained by treating the protoplasts, the bacteria mentioned in the title, with water, as well as by a direct lysis of the same bacteria in an osmotically unstabilized medium (Refs 1,2). The effect of the malonic oxidase is completely stopped due to the splitting of the highly molecular desoxyribonucleic acid (DNA) present in the lysate - by means of desoxyribonuclease (DNA-ase) - into cytoplasmic membranes which the lysate did not separate. This is expressed by

Card 1/3

SOV/20-126-1-54/62

The Effect of Desoxyribonuclease on the Oxidation of Malonic Acid by the Lysates of Micrococcus Lyodeikticus

> the fact that the oxygen absorption is stopped by the lysate at the expense of the malonic acid (Ref 1). The present work tries to explain a relation between the development of the DNA in the lysate containing cytoplasmic membranes, and the activity of the system of oxidative-reductive ferments. For the purpose of explaining the cause for the suppression of the activity of malic oxidase in lysates treated with DNA-ase and RNA-ase, the authors quantitatively defined this activity from the oxygen absorption. The preparations were observed simultaneously under the electron microscope (Fig 1). The lysis of the bacteria with lysozym DNA-ase and RNA-ase was made with both Mg-ions being either present or absent (Pig 1). As the results show, lysozym in an osmotically unstabilized medium causes the development of lysates containing cytoplasmic membranes. The active malic oxidase is maintained in these membranes. Their effect can be found by 02-absorption.

Lysis caused by lysozym together with DNA-ase completely suppresses the fermentative system mentioned. Magnesium ions

Card 2/3

SOY/20-126-1-54/62

The Effect of Desoxyribonuclease on the Oxidation of Malonic Acid by the Lysates of Micrococcus Lyodeikticus

stabilize not only the structure of the cytoplasmic membranes, but also the malic oxidase. The experiments proved that the DNA splitting of the bacterial lysate neutralizes the effect of the malic oxidase. Since this effect is maintained even in the presence of Mg-ions, although the Mg-ions do not prevent the fermentative splitting of DNA, it is most probable that DNA creates a spatial organization of the fermentative system of the malic oxidase on a supra-molecular level. An analogy to reference 8 may be seen. There are 1 figure, 1 table, and 8 references, 3 of which are Soviet.

SUBMITTED:

February 16, 1959

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Card 3/3

GEL MAN, N. S., ZHUKOVA, I. G., LUKOYANOVA, M. A.

"Oxidative-Reducing Enzymes of the Cytoplasmic Membrane of Micrococcus Lysodeikticus."

report submitted for the First Conference on the problems of Cyto and Histochemistry, Moscow, 19-21 Dec 1960.

Institute of Biochemistry Imeni.A. N. Bakh, Academy of Schences USSR, Moscow.

Oxidation of L-malic acid and reduced diphosphopyridinemucleotide
in the cytoplasmic membrane of Micrococcus lysodeikticus. Dokl.
and SSSR 133 no.5:1209-1212 Ag 60. (MIRa 13:8)

1. Institut biokhimii im. A.N.Bakha Akademii nauk SSSR.
(Malic acid)
(Mucleotides)
(Micrococcus)
(Oxidation, Physiological)

GEL! MAN, N.S.; ZHUKOVA, I.G.; CPARIN, A.I., akademik

Effect of desoxycholate on the exidation of reduced diphosphopyridine nucleotide, L-malic and L-lactic acids in the cytoplasmic membrane of Micrococcus lysodeikticus. Dokl. AN SSSR. 135 no.1:200-203 N '60.

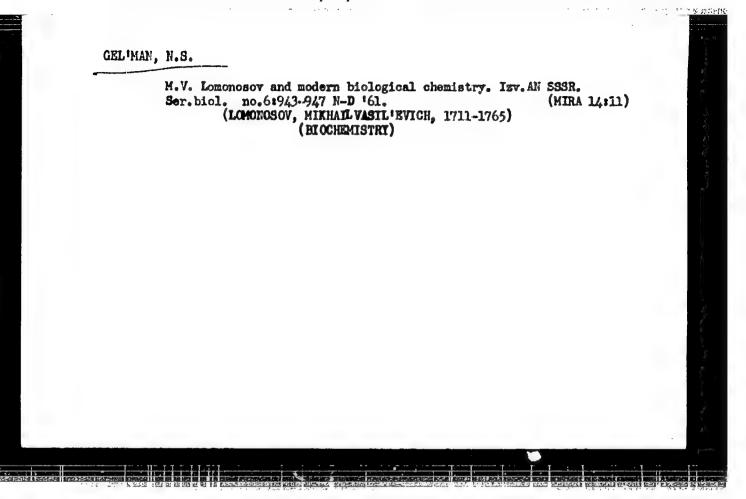
(MIRA 13:11)

(MICROCOCCUS) (OXIDATION, PHYSIOLOGICAL) (BACTERIOLYSIS)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710006-7"

Dxidases of the Cytoplasmic Membrane of Micrococcus lysodelxticus (read by title).

report presented at the 5th Int'l.
Plochemistry Congress, Moscow, 10-16 Aug. 1961



LUKOYANOVA, M.A.; GEL'MAN, N.S.; BIRYUZOVA, V.I.

Structure of the cytoplasmic membranes of Micrococcus lysodeikticus and succinic oxidase and succinic dehydrogenase activity. Biokhimiia 26 no.5:916-925 S-0 '61. (MIRA 14:12)

1. Institute of Biochemistry and Institute of Radiation and Physico-chemical Biology, Academy of Sciences of the U.S.S.R., Mcscow.
(MICROCOCCUS) (SUCCINIC DEHYDROGENASE)
(SUCCINIC OXIDASE)

GEL WALL, M.S.; SISANYAM, M.M., akademik, glav. red.; DETA,, MAR. glav. red.; OLARIN, A.I., akademik, red. torn; VETKOVA, I.B., red. izd-va; NOVICHKOVA, N.D., tekhn. red.

[Transactions of the Fifth International Congress of Bio-chemistry]Trudy V Mezhdunarodnogo biokhimicheskogo kongressa. Moskva, Izd-vo Akad. nauk SSSR. [Vol.4. Evolutionary bic-chemistry; symposium No.3.]Evoliutsionnaia biokhimiia; simpozium III. 1962. 350 p. (MIRA 15:10)

1. International Congress of Biochemistry. 5th, Moscow, 1961. (BIUCHEMISTRY—CONGRESSES)

OSTROVKSIY, D.N.; GEL'MAII, N.S.

Determination of the oxygen concentration in biological fluids by the method of polarography with stationary hard electrodes. Biokhimita 27 no.31532-537 My-Je '62. (MIRA 15:8)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow.

(OXYGEN) (FOLAROGRAPHY) (BODY FLUIDS)

GEL MAN, N.S.; LUKOYANOVA, M.A.

Electron carriers in the respiratory chain and their connection with the structures of the bacterial cell. Mikrobiologiia 31 no.3:556-569 My-Je '62. (MIRA 15:12)

1. Institut biokhimii imeni A.N.Bakha AN SSSR.
(OXIDATION, PHYSIOLOGICAL) (BACTERIA) (ELECTRONS)

GEL! MAN, N.S.; ZHUKOVA, I.G.; ZAYTSEVA, N.I. Flavine nucleotides in the cytoplasmic membrane in Micrococcus lysodeikticus. Dokl.AN SSSR 145 no.1:206-208 Jl 162. (MIRA 15:7)

1. Institut biokhimii imeni A.N.Bakha AN SSSR. Predstavleno ekademikom A.I.Oparinym.
(RIBOFLAVINE PHOSPHATES) (MICROCOCCUS)

GEL MAN. N.S.: ZHUKOVA, I.G.; OPARIN, A.I.

Preparation of dehydrogenases of 1-malic acid and the reduced form of diphosphopyridine nucleotide from cytoplasmic membranes of Micrococcus lysodeikticus. Biokhimiia 28 no.1:122-127 Ja-F 163. (MIRA 16:4)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow. (CODEHYDROGENASE) (MICROCOCCUS) (MALIC DEHYDROGENASE)

OSTROVSKIY, D.N.; GEL'MAN, N.S.

Membranes of Micrococcus lysodeikticus and their relation to oxidation phosphorylation. Dokl.AN SSSR 148 no.41945-946 F 163. (MIRA 1614)

1. Predstavleno akademikom A.I.Oparinym.
(Micrococcus) (Phosphorylation) (Membranes (Biology))

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OPARIN, A.I., Lakademik; GEL'MAN, N.S.; ZHUKOVA, I.G.; SHVETS, V.I.; CHERGADZE, Yu.N.; TSFASMAN, I.M.

Lipids of the dehydrogenase preparation from the cytoplasmic membranes of Micrococcus lysodeicticus. Dokl. AN SSSR 152 no.1:228-230 S '63. (MIRA 16:9)

1. Institut biokhimii im. A.N.Bakha AN SSSR; Institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova i Institut biologicheskoy fiziki AN SSSR. (LIPIDS) (DEHYDROGENASES) (BACTERIA, PATHOGENIC)

OPARIN, A.I., akademik; KHART'YAN, Ye.F.; GEL'MAN, N.S.

Localization of hydrogenases and their relation to oxygen in cells of Lactobacterium pentoacericum. Dokl. AN SSSR 157 no.1: 211-214 Jl *64 (MIRA 17:8)

1. Institut biokhimii im. A.N. Bakha AN SSSR.

BIRYUZOVA, V. I.; LUKOYANOVA, M. A.; GEL!MAN, N. S.; OPARIN, A. I., akademik

Subunits in the cytoplasmatic membranes of Micrococcus lysodeikticus.

Dokl. AN SSSR 156 no. 1:198-199 My '64. (MIRA 17:5)

1. Institut biokhimii im. A. N. Bakha AN SSSR i Institut radiatsicnnoy i fiziko-khimicheskoy biologii AN SSSR.

OPARIN, A.I.; LUKOYANOVA, M.A.; SHVETS, V.I.; GEL'MAN, N.S.; TORKHOVSKAYA, T.I.

Role of lipids in the organization of enzymatic chains of electron transfer in Micrococcus lysodeikticus. Zhur. evol. biokhim. i fiziol. 1 no.1:7-15 Ja-F 165. (MIRA 18:6)

1. Institut biokhimii im. A.N. Bakha AN SSSR i Moskovskiy institut torkoy khimicheskoy tekhnologii im. M.V. Lomonosova.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710006-7"

·公為國籍法官提倡編輯書

ACCESSION NR: AP5018620

AUTHORS: Gel'man, N. S.; Lukoyanova, H. A.

TITLE: The structure and function of biological membranes

SOURCE: AN SESR. Vestnik, no. 7, 1965, 94-95

TOPIC TAKS: membrane, cytology, biochemistry, biophysics

ABSTRACT: The structure and function of biological membranes have been studied by biochemists, biophysicists, cytologists, and microbiologists to find composition

ABSTRACT: The structure and function of biological membranes have been studied by biochemists, biophysicists, cytologists, and microbiologists to find composition reaction characteristics controlling the strength of the bond with fats and albumins in the membrane, and the role of the membrane in cellular permeability. On April 7-7 the Nauchuny sovet po evolutionary biochemistry and the Problem of the Origin of Life) and the Moskovskoye otdeleniye Vessoyuzacgo biokhisticheskogo obshchestva Akademii nauk SSSR (Koscow Department of the All-Union Biochemistry Society of the Academy of Sciences SSSR) conducted a symposium in Moscow on the structure and function of such membranes. Hineteen reports were represented.

These fall into two basic groups: properties of model fatty and fut-protein cond-1/3

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L 61016-65 ACCESSION NR: AP5018620

membranen, and the morphology and evolution of biological membranes. Some reports suggested the possibility of membrane formation in the pra-cellular stage of organism development. A. I. Oparin indicated two methods of approaching the study of biological membranes: model studies and investigation of structure and function of membranes in cells at different organization levels. . G. A. Deborin discussed model studies on fatty and fat-protein membranes at an air-water interface. L. N. Moiseyev reported on transfer of hydrocarbons tarough model membranes. Is. A. Liberman and A. A. Lev discussed the physical and physicochemical properties of phospholipid membranes at a water-water interface. K. B. Serebrovskaya reported on the ferrentation rate and its relation to labile components. L. D. Bergel'son pointed out the necessity of identifying the fatty components for ... model construction. I. S. Vaysman explained electron miscoscope verification of the universal distribution of membrane structures in cells. V. F. Mashanskiy proposed a scheme of ferment distribution, and V. I. Biryuzova compared membrane structures at different evolutionary levels. Chloroplast structure and function were discussed by C. P. Ocipova, Ta. C. Molotkovskiy, E. N. Bezinger, and M. I. Molchanov. R. K. Malyayev discussed possible mechanisms of transmission through plant cells. Biochemical processes involving leaf movement were explained by M. N. Lyubimov, and a comparison of plant and animal cells was reported on by Ye. H.

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"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000514710006-7

OPARIN, A.I., akademik; GEL'MAN, N.S.; ZHUKOVA, I.G.

Effect of lipase and phospholipase A on the dehydrogenase activity in an enzymatic preparation from Micrococcus lysodeicticus membra-

(MIRA 18:3)

1. Institut biokhimii im. A.N. Bakha AN SSSR.

nas. Dokl. AN SSSR 161 no.1:237-240 Mr 165.

OSTROVSKIY, D.N.; KHARAT'YAN, Ye.F.; GEL'MAN, N.S.

Effect of pancreatic lipase on the protoplasts of Micrococcus lymodeikticus in connection with the problem of the localization of respiratory enzymes in bacteria. Bickhimia 29 no. 1: 154-160 Ja-F *64. (MIRA 18:12)

1. Institut biokhimii imeni Bakha AN SSSR, Moskva. Sutmitted June 22, 1963.

L 62937-65 EE((b)-2/E/A(h)/E/T(1)

ACCESSION NR: ARS012297

UR/0058/65/000/003/H017/H017

SOURCE: Ref. zh, Fizika, Abs. 3Zh118

4

AUTHOR: Gel'man, O. Ya.

TITLE: Defining the limits for disjunctive use of exponential and normal distribution laws for breakdown times of elements in electronic equipment

CITED SOURCE: Env. At LatySSR. Ser. fiz. i tekhn. n., no. 4, 1955, 119-123

TOPIC TAGS: probability, reliability theory, distribution function, normal distribution

TRANSLATION: Data from a study of extreme points of the generalized probability distribution function for failures were used to determine the regions for disjunctive application of exponential and truncated normal distribution laws in evaluating reliability. In this case, the exponential distribution law describes the probability of accidental breakdowns, while the normal truncated law describes the probability of failures due to aging. It is assumed that the laws exist independently of each other.

SUB CODE: HA

ENCL: 00

Gelman, O, Ya

11-58-6-8/13

AUTHORS:

Rubinshteyn, M.M.; Grigor'yev, I.G.; Gel'man, O.Ya.; Khutsaidze, A.L.; Chikvaidze, B.G.

TITLE:

On the Technique of Obtaining Monomineral Fractions for Determining the Absolute Age of Rocks by the Argon Method (K metodike polucheniya monomineral'nykh fraktsiy dlya opredeleniya absolutnogo vozrasta gornykh porod argonovym me todom)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958, Nr 6, pp 95-100 (USSR)

ABSTRACT:

The Argon method of determining the absolute age of rocks is the most convenient for wide scale use in geological research. Not all potassium containing minerals can be used for this purpose. The best mineral is mica - and especially muscovite, biotite and glauconite mica. For the purposes of obtaining monomineral fractions of these minerals in large quantities (necessary for mass age determination), the author constructed 2 separators of which

descriptions are given.

There are 2 photos, 2 figures, and 6 references, 4 of which

are Soviet and 2 American.

Card 1/2

11-58-6-8/13 On the Technique of Obtaining Monomineral Fractions for Determining the Absolute Age of Rocks by the Argon Method

ASSOCIATION: Geologicheskiy institut AN GruzSSR, Tbilisi (Geologic Institute of the AS of the Georgian SSR, Tbilisi)

SUBMITTED: July 15, 1957

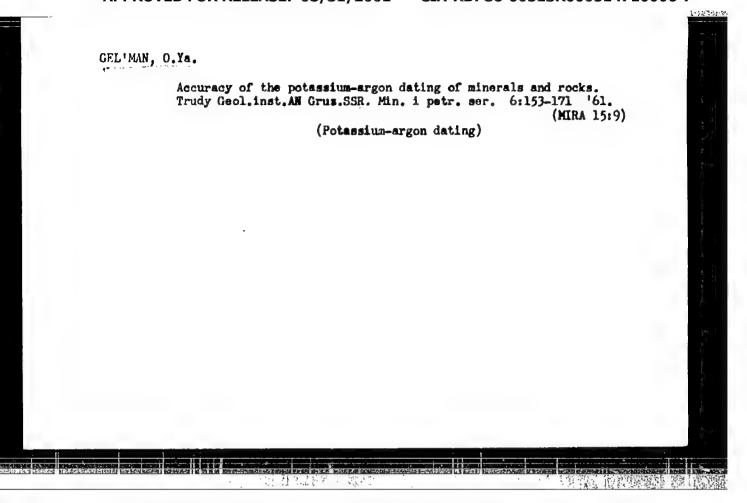
AVAILABLE: Library of Congress

Card 2/2 1. Geology 2. Rock-Determination

RUBIESHTEYN, M.M.; CHIKVAIDER, B.G.; KHUTSAIDER, A.L.; GEL'MAN, O.Ya.

Using glauconite for determining the absolute age of sedimentary rocks by the argon method. Isv.AN SESR.Ser. geol. 24 no.12:77-83 D 59. (MIRA 13:8)

1. Geologicheskiy institut AN Grussen, Toilisi.
(Rocks, Sedimentary) (Glauconite) (Argon)



S/169/61/000/009/004/056 D228/D305

AUTHOR:

Gel'man, O. Ya.

TITLE:

Investigating errors in the determination of the content of \mathbb{A}^{40} in minerals by the method of isotopic dilution

(with the use of A36)

PERIODICAL:

Referativnyy shurnal. Geofizika, no. 9, 1961, 7, abstract 9A46 (Soobshch. AN GruzSSR, v. 25, no. 4, 1960, 399-406)

TEXT: The error and sensitivity were studied for one of the variants in determining absolute age with respect to the radioactive conversion of K^{40} to A^{40} by the method of isotopic dilution. The reduction of the magnitude of error in determining the amount of the admitted standard is carried out by improving the conditions and raising the precision of the measurement of the mercury levels of the MacLeod manemeter, and also by rejecting the use of the special measuring volume. The decrease in

Card 1/2

Investigating errors in...

S/169/61/000/009/004/056 D228/D305

the errors caused by mass-spectrometric measurements results in determining the optimum conditions for obtaining the maximum information. As a result of the conducted investigations it is shown that for an acceptable error of $E_{\rm m}=10\%$ and a weighted-portion of 10 g the measurable

concentration of A comprises ~ 0.006 n. mm³/g --when A with a normal isotopic content is used as the standard—and 0.001 n. mm³/g if a standard which is twice as rich in the isotope A³⁶ is employed. When the K content of a mineral is $\sim 7\%$, we have a minimum measurable age of ~ 20 million years in the first case and of ~ 4 million years in the second case. Abstracter's note: Complete translation.

Card 2/2

RUBINSHTEYN, M.M.; GRIGOR'YEV, I.G.; UZNADZE, E.D.; GEL'HAN, O.Ya.; LASHKHI, B.A.

Spectrometric determination of alkali metals in an ammonia-oxygen flame. Soob.AN Gruz. SSR 24 mo.6:683-690 Je 160. (MIRA 13:9)

1. AN GruzSSR, Geologicheskiy institut, Tbilisi. Predstavleno akademikon A.I.Dshanelidse.
(Alkali metals)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710006-7"

S/186/61/003/002/014/018 E111/E452

AUTHOR:

Gel'man, O.Ya.

TITLE:

Contribution on the problem of using the volumetric method for determining the content of radiogenic argon

in minerals

PERIODICAL: Radiokhimiya, 1961, Vol.3, No.2, pp.215-224

TEXT: The author points out that work with the isotope-dilution method of determination of radiogenic argon in measurements of absolute age (Ref.1: Kh.I.Amirkhanov, S.B.Brandt, Ye.N.Bartnitskiy, 10. Makhachkala (1958); Ref.2: A.K.Mousuf, Phys.Rev., 88, 1, 150 (1952); Ref.3: D.R.Carr and J.L.Kulp, Rev.Sci.Instr., 26, 4, 379. (1955)) has indicated that the disadvantages of the volumetric method are not as serious as earlier supposed. He has, therefore, carried out a comparative theoretical investigation on the two methods based essentially on measurement of their accuracies. His previous work (Ref.4: Soobshch. AN Gruz. SSR, 25, 4, 399 (1960)) gives the necessary information on the errors in the isotopedilution method, but none is available on that of the volumetric. He examines the various sources of error such as adsorbed argon on specimen surface and argon absorbed during crystallization of the Card 1/4

5/186/61/003/002/014/018 E111/E452

Contribution on the problem ...

the mineral. The latter is generally improbable (Ref. 4 and Ref. 8: R.Ye.Damona, J.L.Kulp, Am. Mineralogist, 43, 433 (1958)) and the non-radiogenic argon can therefore be assumed to have the atmospheric distribution of argon isotopes. The problem is to select for measurement the isotope ratios with which both the number of measured values and the error obtained would be at a minimum. The author examines possible combinations and arrives at the following equation for the relative error $\Delta X/X$ in the determination of the content of radiogenic A⁴⁰

$$\frac{\Delta X}{X} = \frac{\Delta Q}{Q} + \frac{\Delta a}{a} = 8 + \varphi + \psi = \frac{\Delta c}{c} + 2\frac{\Delta H}{H} + \frac{\Delta K}{K_0} \cdot \frac{K_0 + K_0}{K_0 - K_2}.$$
 (36)

Here, Q is the total quantity of argon, α is the mass-spectrometric correction (for the non-radiogenic argon content), c is the calibration content for the apparatus, $H = \sqrt{Q/c}$; ΔK is the value of the absolute error (10⁻⁵ according to Ref.4 and Ref.10: Kh.I.Amirkhanov, S.B.Brandt. Makhachkala (1956)) in the mass spectrometric determination of the K ratio, K_B is the Card 2/4

Contribution on the problem ...

S/186/61/003/002/014/018 E111/E452

ratio B36/B40 where B indicates the content of the corresponding non-radiogenic argon isotope and $K_2 = B36/(B40 + x)$. On the basis of this equation, the author carries out his comparison of the two methods, using his own (Ref.4) and other published information (Ref.1). Among the factors considered are the degree of "enrichment" of the standard sample with A36 compared with argon of the normal isotope composition; the degree of "contamination" of argon evolved from the mineral by air argon; degree of dilution. He shows the importance of the second factor. The author concludes from his examination that the volumetric method is more accurate and sensitive than the variants of the dilution method considered. The latter becomes comparable only if a standard enriched with ${\sf A}^{36}$ is used. However, this conclusion However, this conclusion may be somewhat altered when very small quantities of argon are measured, since then considerable systematic errors may appear. There are 1 table and 11 references: 7 Soviet-bloc and 4 non-Soviet bloc. The four references to English language publications read as follows: A.K.Mousuf, Phys. Rev., 88, 1, 150 (1952); D.R.Carr and J.L.Kulp, Rev.Sci.Instr., 26, 4, 379 (1955); Card 3/4

S/186/61/003/002/014/018 Contribution on the problem ... E111/E452

P.E.Damon and J.L.Kulp, Am. Mineralogist, 43, 433 (1958); A.O.Nier, Phys.Rev., 77, 6, 789 (1950).

SUBMITTED: May 5, 1960

Card 4/4

RUBINSHTEYN, M.M.; GRIGOR'YEV, I.G.; UZNADZE, E.D.; GEL'MAN, O.Ya.

Photometric determination of potassium and sodium in ammoniaoxygen flame. Biul.Kom.po opr.abs.vowr.geol.form. no.4:109-113
'61. (Geological time)
(Potassium) (Sodium)

GEL'MAN, O.Ya.

Effect of the discreteness of the measuring scale on accuracy estimation of measurement results. Soob. AN Gruz. SSR 26 no. 3-513-520 My *61. (MIRA 14:8)

1. Geologicheskiy institut AN GruzSSR, Tbilisi. Predstavleno chlenom-korrespondentom AN GruzSSR G.S. Chogoshvili.
(Errors, Theory of)

S/011/62/000/005/001/001 AU51/A126

AUTHORS:

Rubinshteyn M. M., Gel'man, O.Ta.

TITLE

On the neccessity of unification of the values of KuO radioactive

decay constants used in calculating the absolute age

PERIODICAL: Akademiya nauk SSSR Izvestiya. Ser. geologich., no. 6,1362,3-11

TEXT: The authors discuss the decay constants of KhO and their determination by the radiogenic argon content. They are reviewing methods presented in pertinent literature published in the period from 19h? to 1961. In their conclusion they stress the point that the use of a diversity of constants for the calculation of age values should be discontinued and surgest a decision on the unification be made by an authoritative body as the International Geological Congress.

ASSOCIATION: Geologicheskiy institut AN GruzSSR, Tbilisi (Geology Institute of the AS GeorgianSSR, Tbilisi)

Card 1/1

27751 \$/058/61/000/007/042/086 A001/A101

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AUTHORS: Rubinshteyn, M.M., Grigor'yev, I.G., Uznadze, E.D., Gel'man, O.Ya.,

Lashkhi, B.A.

TITIE: Spectrophotometrical determination of alkali metals in ammonia-oxy-

gen flame

PERIODICAL: Referativnyy zhurmal. Fizika, no. 7, 1961, 175, abstract 70149

("Soobsheh. AN GruzSSR", 1960, v. 24, no. 6, 683 - 690)

TEXT: The authors describe a flame-photometrical device designed for determination of Na, K, Li and Rb in solutions. The NH_3-O_2 flame was used for spectrum excitation. The measurement of spectral line intensities was conducted with a photoelectrical device which consisted of an JM-2 (JM-2) monochromator, a photocell, a d-c amplifier, and a microamperemeter. The nature of an effect which arose at the simultaneous determination of alkali elements was investigated, and methods of taking it into account are proposed. In particular, tables are calculated for correcting the results of joint determinations of Na and K.

[Abstracter's note: Complete translation]

M. Britske

Card 1/1

GHL*MAN. P.Ya... redaktor; SKYOHTSOV, I.M., tekhnicheskiy redaktor

[Technical material on automatic switches and fuses] Tekhnicheskie materialy po avtomaticheskim vykliuchateliam i predoktraniteliam.

Moskva, Gos. energ. isd-vo, 1956. 102 p. (MIRA 9:10)

1. Moscow. Gosudarstvennyy proyektnyy institut Tyazhpora-elektroproyekt.

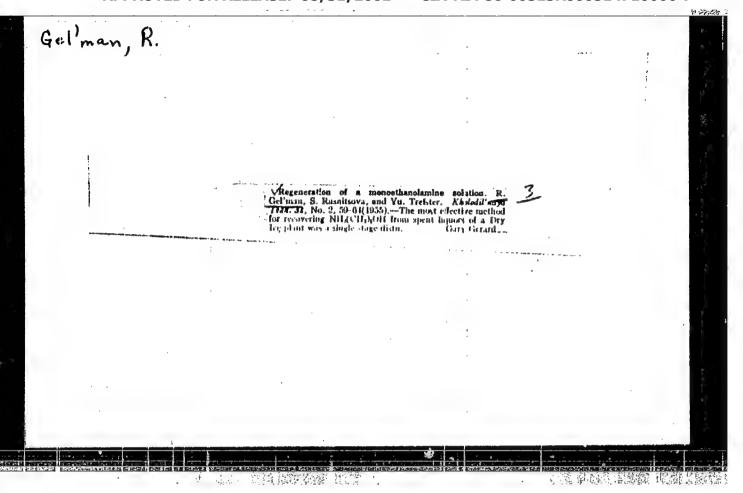
(Electric switchgear)

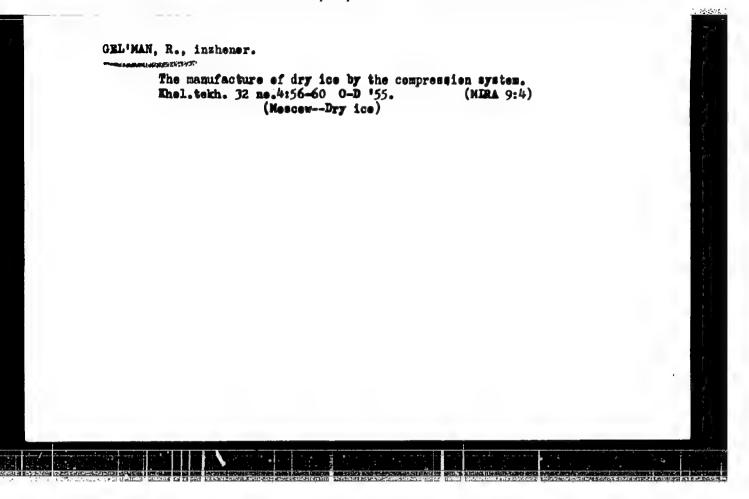
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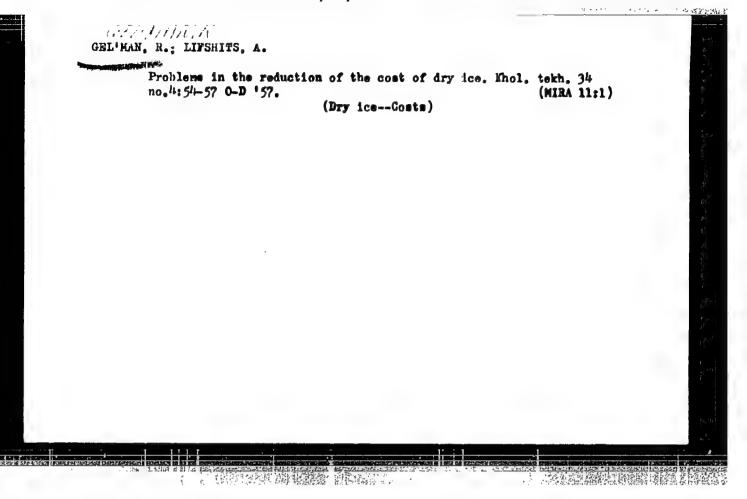
Measuring and control instruments at the dry ice plant of the Moscow cold storage combine. Ehol.tekh. 31 no.4:62-66 0-D 154.

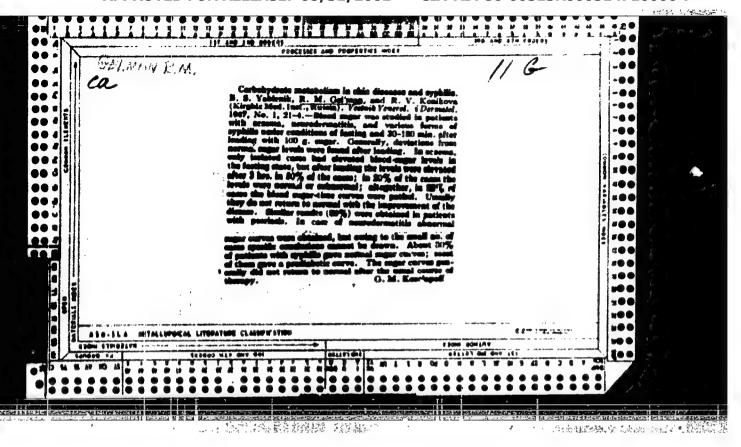
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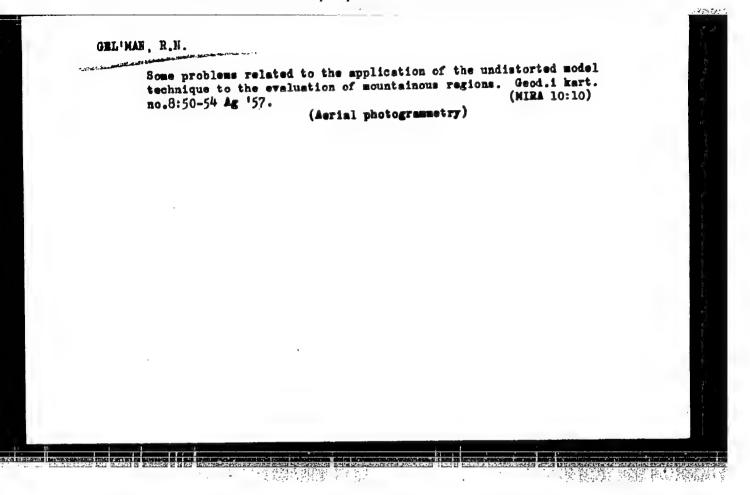
(Moscow--Dry ice)











3(4) AUTHOR:

Gel'man, R. H.

507/6-59-1-5/14

TITLE:

Taking Into Account the Imperfect Fit of the Photographic Plate in Photographing With the Phototheodolite (Uchet vliyaniya neplotnogo prileganiya fotoplastinki pri

fototeodolitnoy s"yemke)

PERIODICAL:

Geodeziya i kartografiya, 1959, Nr 1, pp 31-36 (USSR)

ABSTRACT:

This paper shows the possibility of taking into account the imperfect fit of the photographic plate in the frame of the camera. The distortion of the picture can be divided into two components: the one is dependent on the irregular fit, which is analogous to the increase of the focus of the camera by Δf , whereas the second component corresponds to an inclination of the photographic plate at a rotation of the plate with respect to the plane of the frame around the angle $\{\cdot, -\}$.-First the formula $\{0\}$ for the influence exerted by the imperfect fit of the photographic plate upon the coordinate x is derived. This influence corresponds to the inclination in the rotation of the plate around the vertical axis of the picture. Then the formula $\{0\}$ for the same influence, but in the

Card 1/2

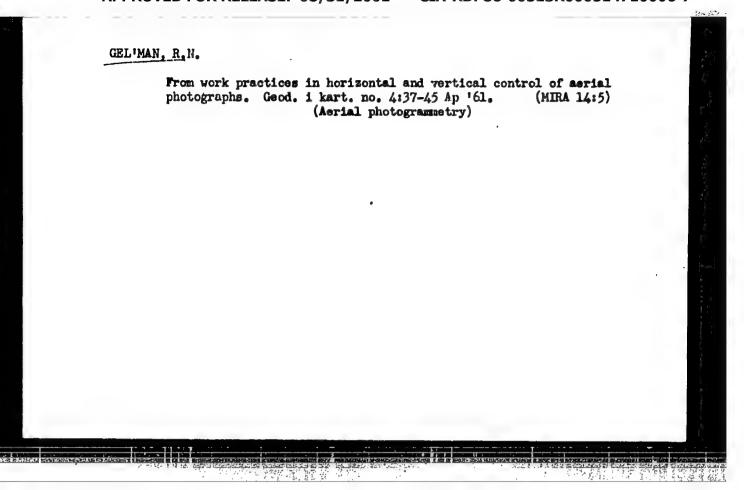
rotation of the photographic plate by the angle ω around the

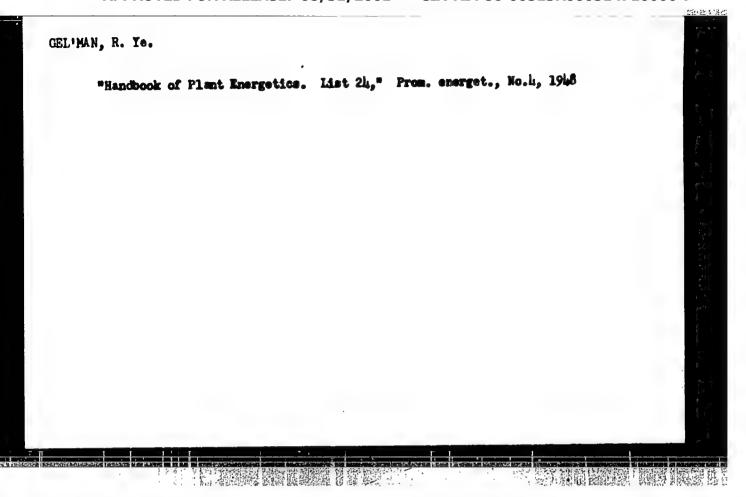
Taking Into Account the Imperfect Fit of the Photographic Plate in Photographing With the Phototheodolite

507/6-59-1-5/14

horizontal axis of the picture, is deduced. To introduce corrections of the imperfect fit of the photographic plate in the frame Af, E and @ must be known. The formulas (6) and (7) are derived. (6) expresses the corrections of the abscissa of the picture x due to the imperfect fit of the photographic plate in dependence upon the variation of the distance between the coordinate marks. The distortion caused at the moment of exposure by the imperfect fit of the photographic plate, as well as the way of non-fitting, and its sign can be determined according to formula (7). Using formula (6) also those values may be found beginning at which corrections must be introduced due to the imperfect fit of the photographic plate. -The determination of the cases of imperfect fit according to the method described here takes but little time. Therefore, all 'negatives must be examined according to this method after finishing the field work. When an imperfect fit of the photographic plate is found corrections of all points must be carried out according to formula (5). There are 4 figures.

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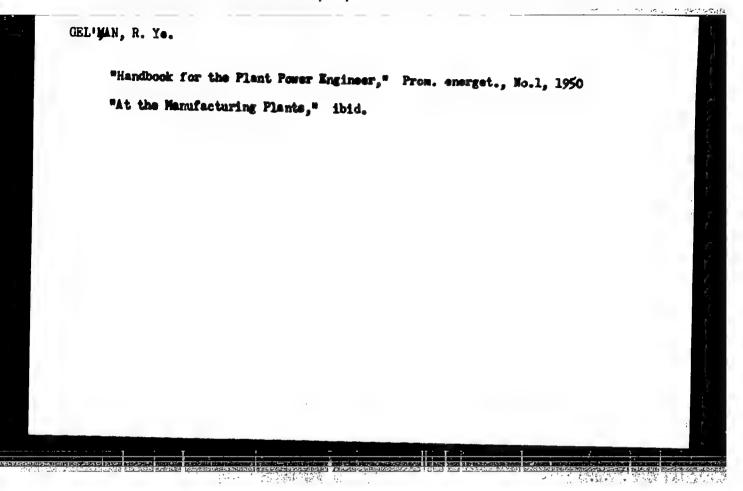
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Wotors, Electric

"Gombined Table of Asynchronous Motors of Three-Phase
Current With Contact Rings," R. Ye. Gel'man, 1 p

"Prom Energet" No 5
An installment of a tabulated list of standard electric
motors and their performances.

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| | "Prom Energet" No 6 | | ĮĈ. |
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"High-Voltage Cut-Out Switch," Prom. energet., No.6, 1949
"Handbook of Plant Energetice," ibid., No.7, 1949
"Data on Magnetic Starter Goils," ibid.
"The Factory Power Engineer's Handbook Sheet Ltd., Reactors, Concrete, Current Lighting," ibid., No.9, 1949
"Information on Factory Power Engineering," ibid., No.10, 1949



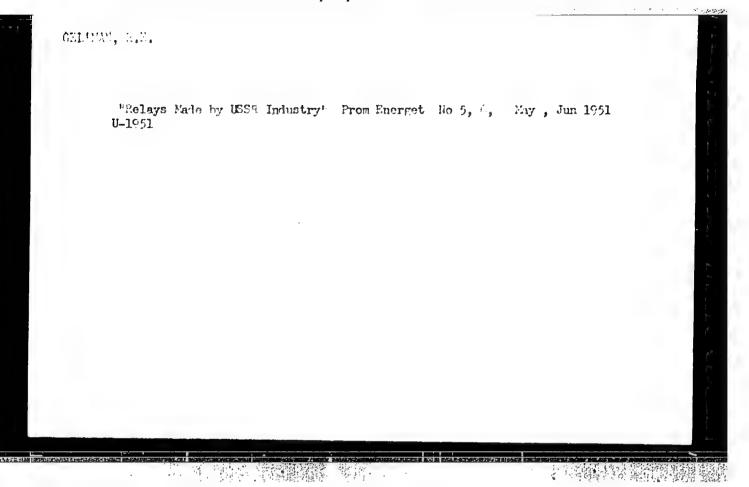
RT-1267 Soviet testing and measuring instruments K. K. trol'mo-izecritel'nye pribory.

Promyshlennala Energetika, 7(12): inside back cover, 1930.

GEL'MAN, R. Ve

"Control Measuring Instruments," Elektrichestvo, No 9, 1950.

Translation W-15573, 4 Dec 50



Pumping Machinery
Alectric gumps for artesian wells. From. energ., 9, no. 2, 1952

Worthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.

Around producer plants. From. energ. 9 no. 7, 1952.

Monthly List of Russian Accessions, Litrary of Congress, April 1952. UNGLANCINIAD.

Licetric Polays
Universal, electromagnetic relay, model MKU-18, manufactured by the plant of the Ministry of Communication Equipment Industry (the end). From. energ. 9, No.3, 1272.

Monthly List of Fussian Accessions, Library of Congress, June 1072, UNIVERSITED

GEL'. N, R. GE.

Electric Current Rectifiers

Cuprous oxide rectifier manufactured by the plant of the Unistry of Communication Equipment Industry. Prom. energ. 9, No. 4, 1952.

wonthly List of Russian Accessions, Library of Congress, June 1952. UCLASSIFIFD.

man, a. Th.

Electric Current Meetifiers

Currous exide rectifiers produced in the plant of the Unistry of Communication Equipment Industry (conclusion). Prom. energ. 9, No. 5, 1952.

Monthly List of Russian Accessing, Library of Congress, August, 1952. UNCLASSIFIED.

Flectric Switchmear

Circuit breakers and switches in plants of the Ministry of Plectrical Industry. res. energ. 9 no. 6, 1952.

Monthly List of Fassian Accessions, Library of Congress, Perterbor 1972, UNCLASSIFIED

GAITTU, T. Ve., 'hr.

Electric Switchmear

Electrical engineering; standard circuit breakers and switches of a plant of the Ministry of Electrical Industry. Prom. energ., 2, Mc.7, 1052.

Nonthly List of Russian Accessions, Library of Congress, October, 1752, UNGLASSIFIED

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"News from Producing Plants," Prom. energe, 9, No.8, 1952

"Electric Engineering. Standard Switchboards for Direct Current Electric Hotors, and for Low Voltage Asunchronous Electric Hotors of General Use," ibid.

- 1. GEL'MAN, R. Ye., Eng.
- 2. USSR (600)
- h. Electric Switchgear
- 7. Electric engineering. Standard switchboards for direct-current electric motors, and for general purpose, low-voltage, asynchronous motors. (Continued) Prom. energ. 9 No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

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- 1. GEL MAN, R. Ye., Eng.
- 2. USSR (600)
- 4. Electric Switchgear Standards
- 7. Electric Engineering. Standard switchboards for direct current electric motors, and for general purpose, low voltage, asynchronous electric motors, Prom. energ., 9, No. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

- 1. Gal'MAN, R. Ye.
- 2. USSR (600)
- 4. Electric Machinery
- 7. Electric engineering. Three-phase starter reactors with natural oil cooling series PRTM built by the plant of the Ministry of Electric Industry. Prom. energ. 9 no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

- 1. GEL'MAN, R. Ye.
- 2. USSR (600)
- 4. Electric Switchgear
- 7. Automatic and non-automatic switches type Apl6 (Flant MEF). Prom. energ., no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

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1. GEL'MAN, R. YE.

2. USSR (600)

4. Electric Apparatus and Appliances

7. From manufacturing plants. Prom.energ., 10, no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

GELWAN, R. Ye., Eng.

Electric Contactors

Electric engineering. Alternating current contactors cories ET of the place of the Ministry of Electric Industry, Prom. energ. 10, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, Nay 1953. Unclassified.

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1. GEL'MAN, R.Ye.

2. USCR (600)

4. Electric Engineering

7. Through producer plants, Eng. Prom. energ. 10 no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

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